

# ABSTRACT

Cell compositions consisting essentially of mammalian hematopoietic CXCR4<sup>+</sup> stem and progenitor capable to migrate in response to stromal-derived factor 1 (SDF-1) and/or capable to adhere to stromal cells in response to an adhesion-inducing agent, are provided for clinical transplantation. Hematopoietic CXCR4<sup>-/low</sup> stem and progenitor cells can be converted into CXCR4<sup>+</sup> cells by stimulation with a suitable agent. The composition consists preferably of human CD38<sup>-/low</sup> CXCR4<sup>+</sup> cells.

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